to a user.

Claims

- [01] 1. A method for securing software to reduce unauthorized use of the software and for selectively exchanging information, the method comprising: providing software including data representing digital content; associating at least one identifier with the software prior to distribution of the software, the at least one identifier being detectable by a resident authorized representative to request authentication of the software and selective exchange of information with a remote authorized representative; and distributing the software with the at least one identifier
- [c2] 2. The method of claim 1 wherein selective exchange of information includes instructions for the resident authorized representative to contact a remote authorized representative at predetermined intervals.
- [c3] 3. The method of claim 2 wherein the information is selected from a group consisting of updates, upgrades, patches, marketing information, promotional information, quality assurance information, network monitoring

and metering information, and error and usage information.

- [c4] 4. The method of claim 1 wherein the selective exchange of information includes a transfer of instructions for dynamic authorized representative changes.
- [c5] 5. The method of claim 1 wherein the exchange of information includes a transfer of instructions for repeating authentication.
- [c6] 6. The method of claim 1 wherein the digital content is selected from the group consisting of data representing music, data representing video, instructions executable by a computer, code for an application program, code for an operating system, code for a game, data representing a movie, data representing graphics, data representing watermarked works, data representing a magazine, and data representing a book.
- [c7] 7. The method of claim 1 wherein the identifier is hidden from the user.
- [08] 8. The method of claim 1 wherein the identifier is tamper resistant to the user.
- [09] 9. The method of claim 1 wherein the at least one identifier is embedded within a file of at least one component

of the software.

- [c10] 10. The method of claim 1 wherein the at least one identifier is a binary code.
- [c11] 11. The method of claim 1 wherein the at least one identifier is encrypted.
- [c12] 12. The method of claim 1 wherein the step of distributing the software comprises electronically distributing the software.
- [c13] 13. The method of claim 1 wherein the step of distribut— ing the software comprises distributing the software on a computer readable storage medium.
- [c14] 14. The method of claim 1 further comprising:

 performing a process to determine whether an at
 tempted access to the software is authorized based on
 detection of the at least one identifier.
- [c15] 15. The method of claim 14 wherein the step of performing a process comprises:

 determining whether the attempted access to the software is authorized based on registration information associated with the software.
- [c16] 16. The method of claim 14 wherein the step of performing a process comprises:

determining whether the attempted access to the soft—ware is authorized based on registration information as-sociated with the software and registration information associated with a user device.

- [c17] 17. The method of claim 1 further comprising:
 communicating registration information to an authorized representative of the software;
 generating at least one authentication code based on the registration information; and associating the authentication code with the software.
- [c18] 18. The method of claim 17 wherein authorized representative functions are implemented by a user device.
- [c19] 19. The method of claim 17 wherein authorized representative functions are implemented by software.
- [c20] 20. The method of claim 17 wherein authorized representative functions are implemented by hardware.
- [c21] 21. The method of claim 20 wherein authorized representative functions are implemented by hardware and software.
- [c22] 22. The method of claim 1 wherein the at least one identifier is included in a file name for at least one component of the software.

- [c23] 23. The method of claim 22 wherein the identifier is selected from the group consisting of a filename, a filename prefix, a filename suffix, a filename extension, a filename extension prefix, and a filename extension suffix.
- [c24] 24. The method of claim 22 wherein the identifier is tamper resistant to the user.
- [c25] 25. The method of claim 22 wherein the identifier is hidden to the user.
- [c26] 26. A method for securing software to reduce unauthorized use of the software and to selectively exchange information, the method comprising:

 providing software including data representing digital content;

 associating a plurality of identifiers with the software prior to distribution of the software, at least one identi-

prior to distribution of the software, at least one identifier being detectable by a resident authorized representative to request authentication of the software and to
request selective exchange of information with a remote
authorized representative; and

distributing the software with the plurality of identifiers to a user.

[c27] 27. The method of claim 26 wherein at least one of the

identifiers is an activation code that must be entered prior to transferring the software.

- [c28] 28. The method of claim 26 wherein the identifier that requests selective exchange of information triggers instructions for the resident authorized administrator to contact a remote authorized representative at predetermined intervals.
- [c29] 29. The method of claim 27 wherein the information is selected from a group consisting of updates, upgrades, patches, marketing information, promotional information, quality assurance information, network monitoring and metering information, and error and usage information.
- [c30] 30. The method of claim 26 further comprising exchanging information including instructions for dynamic authorized representative changes after detecting a request for selective exchange of information.
- [c31] 31. The method of claim 26 further comprising exchanging information including instructions for repeating authentication.
- [c32] 32. The method of claim 26 wherein the digital content is selected from the group consisting of data representing music, data representing video, instructions exe-

cutable by a computer, code for an application program, code for an operating system, code for a game, data representing a movie, data representing graphics, data representing watermarked works, data representing a magazine, and data representing a book.

- [c33] 33. The method of claim 26 wherein the at least one identifier is hidden from the user.
- [c34] 34. The method of claim 26 wherein the at least one identifier is tamper resistant to the user.
- [c35] 35. The method of claim 26 wherein the at least one identifier is embedded within a file of at least one component of the software.
- [c36] 36. The method of claim 26 wherein the at least one identifier is a binary code.
- [c37] 37. The method of claim 26 wherein the at least one identifier is encrypted.
- [c38] 38. The method of claim 26 wherein the step of distributing the software comprises electronically distributing the software.
- [c39] 39. The method of claim 26 wherein the step of distributing the software comprises distributing the software on a computer readable storage medium.

- [c40] 40. The method of claim 26 further comprising:

 performing a process to determine whether an at
 tempted access to the software is authorized based on
 detection of the at least one identifier.
- [c41] 41. The method of claim 40 wherein the step of performing a process comprises:

 determining whether the attempted access to the software is authorized based on registration information associated with the software.
- [c42] 42. The method of claim 40 wherein the step of performing a process comprises:

 determining whether the attempted access to the software is authorized based on registration information associated with the software and registration information associated with a user device.
- [c43] 43. The method of claim 26 further comprising:
 communicating registration information to an authorized representative of the software;
 generating at least one authentication code based on the registration information; and associating the authentication code with the software.
- [c44] 44. The method of claim 43 wherein authorized representative functions are implemented by a user device.

- [c45] 45. The method of claim 43 wherein authorized representative functions are implemented by software.
- [c46] 46. The method of claim 43 wherein authorized representative functions are implemented by hardware.
- [c47] 47. The method of claim 43 wherein authorized representative functions are implemented by hardware and software.
- [c48] 48. The method of claim 26 wherein the at least one identifier is included in a file name for at least one component of the software.
- [c49] 49. The method of claim 48 wherein the identifier is selected from the group consisting of a filename, a filename prefix, a filename suffix, a filename extension, a filename extension prefix, and a filename extension suffix.
- [c50] 50. The method of claim 48 wherein the identifier is tamper resistant to the user.
- [c51] 51. The method of claim 48 wherein the identifier is hidden to the user.
- [c52] 52. The method of claim 26 further comprising: detecting at least one identifier corresponding to a re-

quest to selectively exchange information; and selectively exchanging information with a remote authorized representative.

- [c53] 53. The method of claim 52 wherein the step of selectively exchanging comprises transferring information to the resident authorized representative.
- [c54] 54. The method of claim 52 wherein the step of selectively exchanging comprises exchanging registration information.
- [c55] 55. A method for digital rights management including selectively exchanging information between at least one resident authorized representative entity installed on or in a user device and at least one remote authorized representative entity, the method comprising: associating at least one identifier with the software to designate the software for protection from unauthorized use;

associating at least one identifier with the software to request selective communication with a remote authorized representative;

detecting the identifiers using an authorized representative resident on or in the user device;

determining whether the user device is authorized to access the software using the authorized representative

entity installed on or in the user device; controlling access to the software based on whether the user device is determined to be authorized; and selectively exchanging information with the remote authorized representative.

- [c56] 56. The method of claim 55 wherein the software includes instructions for the resident authorized administrator to contact the remote authorized representative at predetermined intervals.
- [c57] 57. The method of claim 56 wherein the selectively exchanged information is selected from a group consisting of updates, upgrades, patches, marketing information, promotional information, quality assurance information, network monitoring and metering information, and error and usage information.
- [c58] 58. The method of claim 55 wherein selectively exchanging information includes exchanging instructions for dynamic authorized representative changes.
- [c59] 59. The method of claim 55 wherein selectively exchanging information includes repeating authentication.
- [c60] 60. The method of claim 55 further comprising: determining whether the user device is authorized to access the software using the remotely located authorized

- representative entity in combination with the authorized representative entity installed on or in the user device.
- [c61] 61. The method of claim 55 wherein the authorized representative entity installed on or in the user device comprises a computer chip.
- [c62] 62. The method of claim 55 wherein the authorized representative entity installed on or in the user device comprises program instructions executed by a microprocessor.
- [c63] 63. The method of claim 62 wherein the program instructions comprise an operating system component.
- [c64] 64. The method of claim 62 wherein the program instructions comprise an application program.
- [c65] 65. The method of claim 62 wherein the program instructions comprise a driver for a secondary device.
- [c66] 66. The method of claim 55 wherein the step of determining whether the user device is authorized comprises: comparing registration information associated with the user device to registration information associated with the software.
- [c67] 67. The method of claim 66 wherein the registration information associated with the software is embedded

within an authentication code.

- [c68] 68. The method of claim 66 wherein the registration information associated with the software is encrypted.
- [c69] 69. The method of claim 66 wherein the registration information includes hardware information.
- [c70] 70. The method of claim 69 wherein the registration information includes hardware information associated with a unique user device.
- [c71] 71. The method of claim 69 wherein the hardware information includes a serial number.
- [c72] 72. The method of claim 69 wherein the registration information includes hardware information associated with a group of user devices.
- [c73] 73. The method of claim 55 wherein the resident authorized representative entity is installed by a manufacturer of the user device.
- [c74] 74. The method of claim 55 wherein the resident authorized representative entity is installed from a computer readable storage medium.
- [c75] 75. The method of claim 55 wherein the resident authorized representative entity is installed from the software.

- [c76] 76. The method of claim 55 wherein the resident authorized representative entity is downloaded to the user device.
- [c77] 77. The method of claim 55 wherein the authorized representative entity is transferred to the user device from a network.
- [c78] 78. The method of claim 55 wherein the step of controlling access comprises preventing the software from being transferred to a second user device.
- [c79] 79. The method of claim 55 wherein the step of control-ling access comprises preventing the software from being transferred to a user device if at least one authorized representative is not functional.
- [080] 80. The method of claim 55 wherein the step of controlling access comprises preventing the software from being installed on a user device if at least one authorized representative is not present.
- [081] 81. The method of claim 55 wherein the step of controlling access comprises preventing the software from being executed by the user device.
- [082] 82. The method of claim 55 wherein the step of control-ling access comprises providing limited access to the

software.

- [083] 83. The method of claim 55 wherein the software comprises digital content.
- [c84] 84. The method of claim 83 wherein the software is selected from the group consisting of data representing music, data representing video, instructions executable by a computer, code for an application program, code for an operating system, code for a game, data representing a movie, data representing graphics, data representing watermarked works, data representing a magazine, and data representing a book.
- [085] 85. The method of claim 55 wherein the software comprises instructions for generating at least one authentication code based on registration information associated with the user device.
- [c86] 86. The method of claim 55 wherein the software comprises instructions for encrypting the authentication code.
- [087] 87. A method for securing software to reduce unauthorized use of the software, the method comprising: providing software including data representing digital content;

detecting an identifier associated with the software indi-

cating that protection from unauthorized use is desired; detecting an identifier associated with the software indicating that selective exchange of information is requested;

communicating with an authorized representative entity to determine whether a user device attempting to access the software is authorized to access the software; and controlling access to the software based on whether the user device is authorized.

- [c88] 88. The method of claim 87 wherein the identifier associated with the software is contained within a filename for the software.
- [089] 89. The method of claim 87 wherein the authorized representative entity is a hardware device.
- [c90] 90. The method of claim 87 wherein the step of communicating with the authorized representative entity comprises communicating with at least one software module associated with the user device.
- [c91] 91. The method of claim 87 wherein the authorized representative entity is installed on the user device.
- [c92] 92. The method of claim 87 further comprising: generating an authentication code based on registration information associated with the user device; and

associating the authentication code with the software.

- [c93] 93. The method of claim 87 wherein the step of communicating comprises:
 generating an authentication code based on registration information associated with the user device; and comparing the authentication code with a previously generated authentication code associated with the software to determine if the user device is authorized.
- [c94] 94. The method of claim 93 wherein the step of comparing the authentication code comprises determining if at least a portion of system information associated with the user device matches system information encoded within the authentication code associated with the software.
- [c95] 95. The method of claim 93 wherein the registration information includes hardware-specific information.
- [c96] 96. The method of claim 87 wherein the authorized representative entity is installed on or in the user device.
- [c97] 97. The method of claim 87 wherein the digital content is selected from the group consisting of data representing music, data representing video, instructions executable by a computer, code for an application program, code for an operating system, code for a game, data representing a movie, data representing graphics, data

representing watermarked works, data representing a magazine, and data representing a book.